

**Improving Communication Efficiency and Performance**  
**in an Unreliable Communication Environment**

**Abstract of the Invention**

In a multinode data processing system, the messages to be transmitted from node to node, per the request of an application program, are stored in a queue on one of the nodes. Acknowledgment of the receipt of the messages is used to control transmission of messages at future times by adjusting the maximum number of allowable messages to be sent from the queue and also by adjusting the time interval that the system waits before retransmitting unacknowledged messages. This permits the use of so-called "unreliable" messaging protocols and relieves application programs and programmers from the burden of employing more complicated protocols.